

APPENDIX A

%!

% (c) Copyright 2001 Adobe Systems Incorporated.

5 % All rights reserved.

% PostScript program to illustrate tiling. Tiles the page in

% userspace and snap each tile to the largest clipping rectangle

% that contains all of the pixels in device space. Image the entire

% document with each tile set as a clipping rectangle. No stitching

10 % errors will appear.

% Control the tilesize and overlap by setting stepx,stepy and

% overlap.

% Put your test file in this procedure.

% NOTE: Verify that your testfile does not use initclip or

15 % initgraphics or any graphics operator that resets the pagedevice.

/DrawTestFile { (dancers.eps) run } bind def

% userspace step in x and y direction for tiling

% This creates 72 point or 1 inch squares

20 /stepx 72 def

/stepy 72 def

% tile overlap in userspace coordinates

% This creates 1/72 of an inch overlaps

25 /overlap 1 def

% get extents of the page to print

currentpagedevice /PageSize get (PageSize is) print dup == aload pop

/maxy exch def

30 /maxx exch def

% remember the default matrix

/defmatrix matrix currentmatrix def

35 % computeclip - convert clippath in userspace to device space

% coordinates. Modify to the nearest whole pixel included

% in the clipping path.

/computeclip % x1 y1 x2 y2 computeclip x1 y1 delx dely

```

{
  4 -2 roll      % x2 y2 x1 y1
  transform ceiling exch ceiling exch % x2 y2 x1' y1'
  4 -2 roll      % x1' y1' x2 y2
5  transform floor exch floor exch   % x1' y1' x2 y2

  2 index sub    % x1' y1' x2' dely
  exch           % x1' y1' dely x2'
  3 index sub    % x1' y1' dely delx
10  exch         % x1' y1' delx dely
} bind def

```

```

% image the page through each tile by creating overlapping
% rectangles and then snapping them to the physical grid

```

```

15 0 stepx maxx {
    /curx exch def
    0 stepy maxy {
        /cury exch def
        /cursave save def

20      % compute the expanded tile
        curx overlap sub
        cury overlap sub
        curx stepx add overlap add
        cury stepy add overlap add
25      % snap the tile to the grid
        computeclip

        (rectclip is ) print 4 array astore dup == flush aload pop

30      % move into device coordinates
        [ 1 0 0 1 0 0 ] setmatrix
        rectclip

35      /showpage { } bind def
        % can also redefine initclip, initgraphics and setpagedevice
        defmatrix setmatrix
        DrawTestFile

```

```

    } for
} for

```

NAME	ADDRESS	CITY	STATE	ZIP
Mr. J. H. Smith	123 Main St.	Springfield	Ill.	62761
Mr. W. R. Jones	456 Elm St.	Chicago	Ill.	60601
Mr. T. L. Brown	789 Oak St.	Peoria	Ill.	61601
Mr. S. K. Davis	101 Pine St.	St. Louis	Mo.	63101
Mr. M. N. Wilson	234 Cedar St.	Indianapolis	Ind.	46201
Mr. P. Q. Taylor	567 Birch St.	Fort Worth	Texas	76101
Mr. R. S. Green	890 Maple St.	Dallas	Texas	75201
Mr. V. T. Adams	1122 Spruce St.	San Antonio	Texas	78101
Mr. Y. U. Baker	1345 Ash St.	Austin	Texas	78701
Mr. Z. W. Carter	1567 Willow St.	San Diego	Calif.	92101
Mr. A. X. Evans	1789 Hickory St.	San Jose	Calif.	95101
Mr. B. Y. Fisher	1901 Cypress St.	San Francisco	Calif.	94101
Mr. C. Z. Hall	2123 Sycamore St.	Oakland	Calif.	94601
Mr. D. A. King	2345 Magnolia St.	Berkeley	Calif.	94701
Mr. E. B. Lewis	2567 Dogwood St.	Albany	N.Y.	12201
Mr. F. C. Miller	2789 Redwood St.	Syracuse	N.Y.	13201
Mr. G. D. Moore	2901 Juniper St.	Albany	N.Y.	12201
Mr. H. E. Parker	3123 Fir St.	Schenectady	N.Y.	12301
Mr. I. F. Roberts	3345 Hemlock St.	Troy	N.Y.	12180
Mr. J. G. Scott	3567 Larch St.	Utica	N.Y.	13501
Mr. K. H. Turner	3789 Basswood St.	Rochester	N.Y.	14601
Mr. L. I. Walker	3901 Elm St.	Buffalo	N.Y.	14201
Mr. M. J. Young	4123 Oak St.	Chester	N.Y.	14010
Mr. N. K. Allen	4345 Pine St.	Gettysburg	Penn.	17301
Mr. O. L. Wright	4567 Spruce St.	Harrisburg	Penn.	17101
Mr. P. M. Green	4789 Ash St.	York	Penn.	17401
Mr. Q. N. Baker	4901 Willow St.	Scranton	Penn.	18501
Mr. R. O. Carter	5123 Birch St.	Wilkes-Barre	Penn.	18701
Mr. S. P. Evans	5345 Cedar St.	Easton	Penn.	18041
Mr. T. Q. Fisher	5567 Elm St.	Reading	Penn.	19601
Mr. U. R. Hall	5789 Fir St.	Lebanon	Penn.	17041
Mr. V. S. King	5901 Hemlock St.	Carlisle	Penn.	17013
Mr. W. T. Lewis	6123 Juniper St.	Shippensburg	Penn.	17251
Mr. X. U. Miller	6345 Larch St.	York	Penn.	17401
Mr. Y. V. Moore	6567 Magnolia St.	Carlisle	Penn.	17013
Mr. Z. W. Parker	6789 Redwood St.	Shippensburg	Penn.	17251
Mr. A. X. Roberts	6901 Sycamore St.	York	Penn.	17401
Mr. B. Y. Scott	7123 Dogwood St.	Carlisle	Penn.	17013
Mr. C. Z. Turner	7345 Elm St.	Shippensburg	Penn.	17251
Mr. D. A. Walker	7567 Fir St.	York	Penn.	17401
Mr. E. B. Young	7789 Hemlock St.	Carlisle	Penn.	17013
Mr. F. C. Allen	7901 Juniper St.	Shippensburg	Penn.	17251
Mr. G. D. Wright	8123 Larch St.	York	Penn.	17401
Mr. H. E. Green	8345 Magnolia St.	Carlisle	Penn.	17013
Mr. I. F. Baker	8567 Redwood St.	Shippensburg	Penn.	17251
Mr. J. G. Carter	8789 Sycamore St.	York	Penn.	17401
Mr. K. H. Evans	8901 Dogwood St.	Carlisle	Penn.	17013
Mr. L. I. Fisher	9123 Elm St.	Shippensburg	Penn.	17251
Mr. M. J. Hall	9345 Fir St.	York	Penn.	17401
Mr. N. K. King	9567 Hemlock St.	Carlisle	Penn.	17013
Mr. O. L. Lewis	9789 Juniper St.	Shippensburg	Penn.	17251
Mr. P. M. Miller	9901 Larch St.	York	Penn.	17401
Mr. Q. N. Moore	10123 Magnolia St.	Carlisle	Penn.	17013
Mr. R. O. Parker	10345 Redwood St.	Shippensburg	Penn.	17251
Mr. S. P. Roberts	10567 Sycamore St.	York	Penn.	17401
Mr. T. Q. Scott	10789 Dogwood St.	Carlisle	Penn.	17013
Mr. U. R. Turner	10901 Elm St.	Shippensburg	Penn.	17251
Mr. V. S. Walker	11123 Fir St.	York	Penn.	17401
Mr. W. T. Young	11345 Hemlock St.	Carlisle	Penn.	17013
Mr. X. U. Allen	11567 Juniper St.	Shippensburg	Penn.	17251
Mr. Y. V. Wright	11789 Larch St.	York	Penn.	17401
Mr. Z. W. Green	11901 Magnolia St.	Carlisle	Penn.	17013
Mr. A. X. Baker	12123 Redwood St.	Shippensburg	Penn.	17251
Mr. B. Y. Carter	12345 Sycamore St.	York	Penn.	17401
Mr. C. Z. Evans	12567 Dogwood St.	Carlisle	Penn.	17013
Mr. D. A. Fisher	12789 Elm St.	Shippensburg	Penn.	17251
Mr. E. B. Hall	12901 Fir St.	York	Penn.	17401
Mr. F. C. King	13123 Hemlock St.	Carlisle	Penn.	17013
Mr. G. D. Lewis	13345 Juniper St.			